

Sandia Family Day Planned for April 18



R. G. Luckey

R. G. Luckey Named Sandia Comptroller

Robert G. Luckey assumed the position of Comptroller for Sandia Corporation this week, succeeding J. M. Campbell who retired March 1.

Mr. Luckey transferred here from New York City where he was comptroller of Western Electric Company's Defense Projects Division.

A Western Electric employee for 31 years, he started as a payroll clerk at the Kearny, N. J., Works and subsequently spent many years in cost and accounting work.

After a variety of assignments in payroll and cost work, Mr. Luckey became a department chief in 1943 responsible for accounting results. In 1947 he was appointed an assistant superintendent and advanced to superintendent of accounting five years later. He had been in his former assignment in New York City since March 1955.

R. W. Henderson Named to Scientific Advisory Committee

A position on the 17-member Department of Defense Scientific Advisory Committee on Ballistic Missiles has been accepted by R. W. Henderson, Vice President, Development.

The position on the board was filled until recently by James W. McRae, former Sandia Corporation president.

The committee, under the chairmanship of Dr. Clark B. Millikan, meets as required and reports directly to the Secretary of Defense.

Mr. Henderson is also a member of the Advisory Panel on Atomic Energy, which reports to the Director of Defense, Research and Engineering.

Sandia Laboratory employees will be able to show their families where they work when the gates are opened for "Sandia Family Day" Saturday, April 18. In addition to individual work areas in most buildings, several of the larger buildings will be open to all visitors. Examples of the type of work usually performed in these open areas will be demonstrated.

Open to all visitors will be Bldgs. 840, model shop facilities; 860, materials and standards laboratories; 864, static test equipment; 865, wind tunnel facility; and 880,

computer and field test facilities.

The importance of Sandia's mission in national defense will be stressed as well as the importance of each employee in accomplishing the Corporation's mission.

Employees wishing to bring the members of their families, defined as persons in the employee's household, will submit a list of names to immediate superiors on a special form being prepared.

Sandia Family Day will begin at 8 a.m. and the program will be divided into several sessions. Employees will receive tickets for one

of the sessions. They will be responsible for their families at all times inside the Tech Area. At the close of each session, the area will be cleared of all persons. Cameras will not be permitted inside the area.

Two "Hospitality Centers" will be set up inside Tech Area I where rest facilities, information booths and refreshment stands will be available. The Centers will be located in the large open areas on the east side of Bldg. 802 and west side of Bldg. 880. The refreshment stands in the rest areas will

serve coffee, soft drinks and cookies. Benches and other conveniences will be provided for the foot-wear.

At selected entrances to the Tech Area reception centers will be set up where employees will be stationed to greet visitors and distribute literature and tour maps. The main reception center will be located in the lobby of Bldg. 800.

General chairman of the steering committee for Sandia Family Day is T. B. Sherwin (4731). Other members and their assignments include: R. D. Flaxbart (4570), plant preparation; R. J. Blount (4152), budget; R. H. Schultz (1280), J. J. Miller (5251), Don Williams, Jr. (1611), W. T. Botner (5142), and R. A. Richards (1542), tour planning and guides; L. F. Parman (4721), properties and exhibits.

C. E. Runyan (4220), hospital-ity; J. L. Hickey (4161), traffic; A. B. Metzger (4810), safety; W. W. Troy (4722), security, and A. D. Pepmueller (4742), expediting. T. B. Sherwin is handling invitations and protocol matters.

M. J. Sektan (4621) is coordinator for the Sandia Family Day.

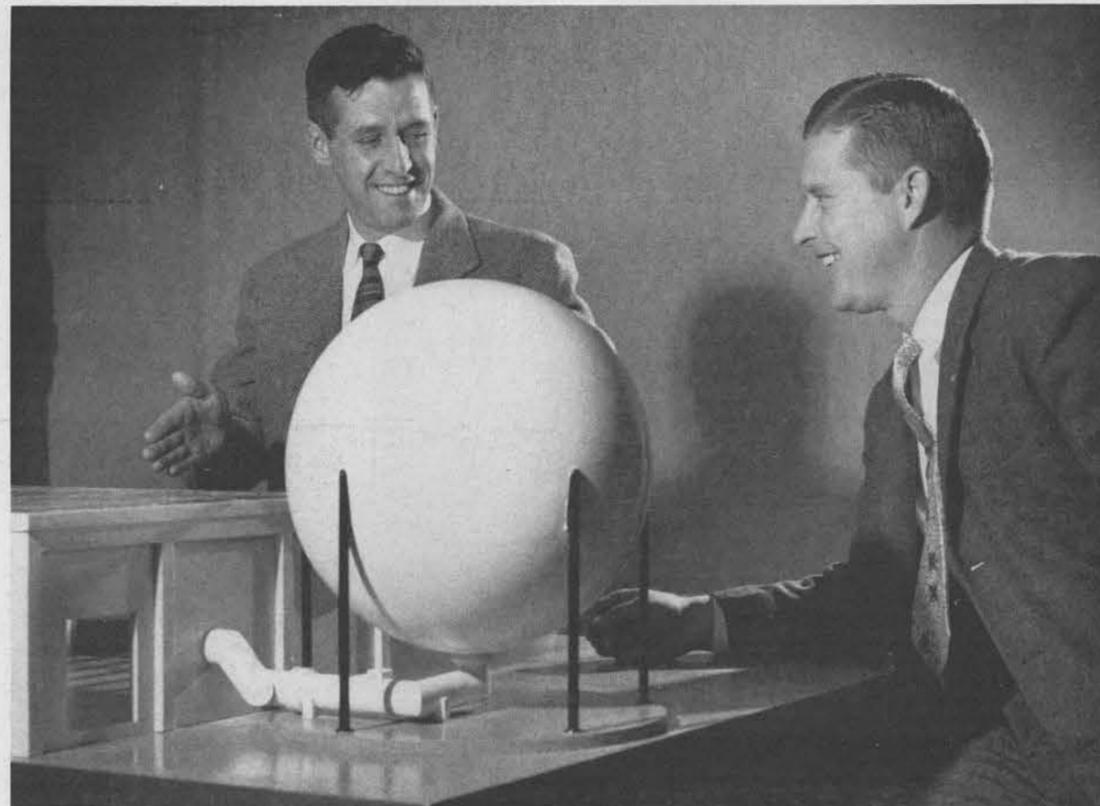


published every other Friday for the employees of sandia corporation, contractor to the atomic energy commission

VOL. II, NO. 5

ALBUQUERQUE, NEW MEXICO

MARCH 6, 1959



WIND TUNNEL FACILITY EXPANSION is indicated on a model of Bldg. 865 by D. E. Randall (5142), left, and R. C. Maydew (5142). An \$84,500 contract for additional office and instrumentation calibration space was awarded last week by the

AEC which will extend the building east as Randall indicates. Mr. Maydew shows where two more huge spherical 10,000 cu. ft. vacuum tanks will be installed east of the one now standing. The enlarged facility will house Sandia's new hypersonic wind tunnel.

Sandia's New Hypersonic Wind Tunnel Facility To Make Mach 9 Tests Possible

An \$84,500 contract for new office and instrumentation space plus two 10,000 cu. ft. vacuum tanks awarded last week by the AEC marks the last stage of a \$600,000 expansion program for Sandia's Wind Tunnel Facility, Bldg. 865.

The expansion is to house a new hypersonic wind tunnel now in the design stages by Aerodynamics Department 5140. The new tunnel is being designed to produce speeds up to Mach 9 and to test aerodynamic and thermal characteristics of weapon models undergoing temperatures as high as 2,500 degrees Fahrenheit.

A recent addition of laboratory space completed this week adds 3,500 sq. ft. to the original 2,530 sq. ft. of the facility. The new contract will add another 1,300 sq. ft. to Bldg. 865 for a total of 7,370 sq. ft. of office, laboratory instrumentation and equipment space.

Before the hypersonic wind tunnel is built, a smaller pilot tunnel will be constructed and tested to prove some of the unique features planned for the proposed hypersonic tunnel.

The pilot model will be a per-

manent facility in Bldg. 865 and should be installed about August, according to R. C. Maydew, supervisor of Experimental Aerodynamics Division 5142. The test section of the pilot model will be five inches in diameter and will produce speeds up to Mach 9. It will be useful for wind tunnel instrumentation research.

The air stream from the high pressure storage tanks for both the pilot and hypersonic wind tunnels will be heated by passing through a chamber containing alumina "pebbles" which have been "baked" to a temperature of 2,500 degrees F. by a gas heater. The heated air stream is then expanded to hypersonic speeds through a "nozzle."

The air stream flows through the test section into three 10,000 cu. ft. vacuum tanks outside to the south of the building. One of the huge spherical tanks is already installed and two new tanks are planned.

The blast of hot air entering the tanks will be cooled through an ingenious system of stacked heat-absorbing empty dog food cans inside the tanks.

A water cooling system around the nozzle "throats" of the hypersonic tunnel will be a feature of the Sandia tunnel. It will be fabricated from beryllium copper, a heat sink material. In addition to this feature the large hypersonic tunnel will have a revolving section that will contain the nozzles for achieving Mach 3, 4, 5, 7 and 9.

Machine Shop Nightmare

Fabrication of each of the 12 ft. long interchangeable nozzles is a machine shop nightmare. For instance, on the Mach 9 nozzle the entrance diameter is five inches which abruptly decreases to .805 inch at the throat, and then gradually increases to an 18 inch exit diameter into the test section. Dimensional tolerances of .001 inch must be held from the throat to the test section. The contour coordinates of the nozzle are being determined with the use of Sandia's IBM 704 computer.

Advantage of the revolving section of nozzles will be speed of operation. Tests can be quickly accomplished at all of the various speeds without time consuming manual changing of the nozzles.

Tests in the hypersonic tunnel will average about 30 seconds in duration. The test section will be 18 inches in diameter and 4 ft. long.

Pebble Heater

The pebble heater for the hypersonic tunnel will be 8 ft. in diameter and approximately 16 ft. high. It will be partially buried in a pit and will run continuously to keep the alumina "pebbles" at a moderate temperature that can quickly be raised to 2,500 degrees F.

The new tunnels will add greatly to the capabilities of the present facilities. In addition to standard force, pressure, and stability tests now performed with the present transonic tunnel up to Mach 2.5, the hypersonic tunnel will have the capability of conducting aerodynamic heating tests plus the conventional tests up to Mach 9.

Mechanical design of both the pilot and hypersonic tunnels is being done by Design Division 5143 with the aerodynamic and heat transfer design the responsibility of Experimental Aerodynamics Division 5142.

IRE Nuclear Group Presents 4th Lecture In Education Series

The fourth lecture in a series of educational programs sponsored by the Professional Group on Nuclear Science, Institute of Radio Engineers, will be presented Tuesday, March 17.

Dr. M. L. Merritt, Nuclear Bursts Department Manager, will discuss "Induced Radioactivity, Nuclear Bombardment, and Equation Nomenclature." Included will be discussions of production of neutrons and their use as projectiles, transuranium elements, fission reactors, charged particle accelerators and fusion.

The program will be presented at 8 p.m. in the lecture hall of the Electrical Engineering Building, University of New Mexico.

C. J. McGarr Speaks To Executive Club

"Organization Planning" was the title of a speech given by C. J. McGarr (2200) at a meeting of the Kirtland Base Executive Club recently.

To emphasize his points, Mr. McGarr displayed a working model of an organization chart, showing lines of communication, areas of activity, etc., which has been used at Sandia to improve the organization.

He said that an organization cannot remain static but must change with the times if it is to be successful.

Dr. M. J. Kelly Honored With John Fritz Medal

Dr. M. J. Kelly last month became the second president of Bell Telephone Laboratories to be awarded the John Fritz Medal honoring scientific or industrial achievement in any field of pure or applied science.

The award was given Dr. Kelly for "his achievements in electronics, leadership of a great industrial research laboratory, and contributions to the defense of the country through science and technology."

Since established in 1902, the Medal has been awarded many of the world's most illustrious engineers and scientists including Frank B. Jewitt, a former President of the Laboratories, Alexander Graham Bell, Thomas A. Edison, Guglielmo Marconi, George Westinghouse, Orville Wright, Elmer A. Sperry, and Herbert Hoover.

The Medal is sponsored jointly by the American Institute of Electrical Engineers, the American Society of Civil Engineers, American Society of Mechanical Engineers, and the American Institute of Mining, Metallurgical and Petroleum Engineers.

"What An Opportunity . . ."

Testimonials on employment at Sandia Corporation are received occasionally. Recently a retiring employee wrote an unusually sincere letter containing his reactions to employment here. These paragraphs are extracted from the letter:

"I started work at the Corporation on July 23, 1951, at the age of sixty-two. I had no technical or academic training but the Corporation took me in.

"Starting as a janitor at one dollar and one cent an hour and today (nearing the age of seventy) my salary is two dollars and thirty-five cents per hour, more than a 138% increase. What a wonderful opportunity for our young men!

"I have enjoyed the privilege of being a Sandian and while I served in a minor capacity, I am happy to have been an integral part of the Corporation."

This straightforward commentary on one man's experience is now a valued document to the Director of Manufacturing Operations to whom it was addressed.

It is stated in the Sandia booklet "Something More Than Pay"—"Because a company is only as good as the people in it, Sandia Corporation has always tried to be the kind of company that would attract — and hold — the best people."

The booklet points out that this goes far beyond paying good wages and salaries. The author of the above letter put his finger on this something beyond pay when he wrote, "What a wonderful opportunity for our young men."

The nation is full of opportunity for young men. Some of them are finding it at Sandia Corporation. The need will continue for bright young men to seize upon the opportunities.

The need will also continue for loyal, productive and intelligent employees who will make the most of the benefits of good employment. For example, such a man as wrote the letter quoted above.

Congratulations

Born to:

Mr. and Mrs. William S. Sturgis (4712) a son, William S., Jr., on Jan. 31.

Mr. and Mrs. Russell U. Acton (1622) a son, Gregory Mitchell, on Feb. 15.

Mr. and Mrs. Ken Shipley (5141) a daughter, Melinda Sue, on Feb. 9.

Mr. and Mrs. Larry L. Lavanier (4314-1) a son, Roger Louis, on Feb. 17.

Mr. and Mrs. Charles Arning (4412) a daughter, Teresa Kay, on Feb. 10.

Mr. and Mrs. Karl Boultinghouse (4412) a daughter, Teri Ann.

Mr. and Mrs. George Anderson (1455) a daughter, Nancy Kay.

Mr. and Mrs. T. O. Meyer (2544) a daughter, Ann Marie, on Feb. 22.

Mr. and Mrs. G. H. Mauldin (1263) a daughter, Jennifer Sue, on Feb. 16.

Mr. and Mrs. Charles Moody (8212-1) a daughter, Ruth Anne, on Feb. 21.

Mr. and Mrs. David Kirk (8114-1) a son, David Eugene, on Feb. 16.

Wedding Anniversaries

The year 1940 must have been a good year for lasting marriages. Stella (2722) and Willard Rappleyea (4251) celebrated their 19th wedding anniversary on Feb. 23.

Jerry Adams (5125) and her husband, who were also married in 1940, marked their anniversary on Mar. 3.



Vivian Sabisch (4722-2)

Take a Memo, Please

To be effective, a safety program must have the support of employees. Sandia Corporation employees believe in their program of safety. They know its aims and enthusiastically engage in its attainment.

Sharpshooting Son

Frank Dain (4211-3) has a sharpshooter in his family. His son, Jack, is a member of the Sandia Base Junior Gun Club team which won the New Mexico State Junior Championship during matches at Holloman AFB on Feb. 14 and 15.

In individual match play Jack placed second, which was determined on the basis of his firsts in the sitting, prone and kneeling matches. He competes in Class B which is for youngsters 13 and 14 years old.

Back From Service

Back at Sandia Laboratory after two years absence is Thomas H. Kutzley, a draftsman in 4413. "Tom" recently returned after



T. H. Kutzley

serving two years in the Army, stationed mainly at Ft. Leonard Wood, Mo. He had been employed by Sandia Corporation a year before leaving.

Welcome Back

Department 2540 welcomes Jerry King (2544-3) back after an extended illness.

Weddings and Engagements

Domenic Bontempi and the former Jerrolyn Dolson were united in marriage on Feb. 14 at Christ Methodist Church.

"Jerry" has worked for the Corporation three years and her husband has been here since July.

Vaughan Westaway (2731-2) and Connie Goble, who worked at Sandia in 4361 last summer and now attends the University of New Mexico, were married Feb. 27. The wedding was held at 2 p.m. in the Central Methodist Church.

After a trip to California, the couple will be at home at 1120 Kentucky, S.E.

Sympathy

To Bill Clark (8142-2) for the death of his father on Feb. 14.

To Carter House (8213-3) for the death of his mother-in-law on Feb. 15.

To Jean Ivarson (8233-1) for the death of her father-in-law on Feb. 18.

To Carl De Ceasar (8234-2) for the death of his father on Feb. 26.

Lee Hollingsworth Elected to Memorial Hospital Board

Lee E. Hollingsworth (8120) was elected to the nine-man Valley Memorial Board of Directors last week by the largest vote given to any of the 14 candidates.

Mr. Hollingsworth was a candidate for one of the three Livermore area seats.

About a third of the 3,500 members of the hospital association voted. Mr. Hollingsworth drew 972 votes, 52 more than the next highest candidate.

During the recent hospital drive, in which about three-quarters of a million dollars was raised, Mr. Hollingsworth headed the Valley-wide in-plant solicitation campaign. W. C. Scrivner headed the fund drive within the Livermore Laboratory in which employees contributed \$38,000, with the Corporation contributing an additional \$10,000.

Get Well Quickly

Get well wishes are extended to Bill Pumphrey (5143) who was admitted to a hospital on Feb. 16.

Hopes for a speedy recovery are passed along to Peg Taylor (1473) who re-entered a hospital last week for major surgery. She will probably be away from work for a month or more.

Also convalescing after recent surgery is Ronald Estey (2722), whose co-workers wish him a speedy recovery.

Division 4233 sends get well wishes to Tom Vigil who has been hospitalized.



PROUD GRANDDADS with their first grandchild are Bill Seelbach (4254-2) and Larry Estabrook (1472), pictured here with their two-week-old granddaughter Gayle Ann Seelbach.

New Home

The John Hinsons (4221-3) recently moved into their new home at 8306 La Camilla Rd. NE.

Welcome Newcomers

Feb. 16-27

Albuquerque	
Erika B. Adams	4333
Karren Allred	4623
Arsenio B. Baca	4574
Robert C. Colgan, Jr.	4731
Cynthia B. Davis	2542
Patricia J. Feliciano	2632
Mary B. Heckler	4623
Billy R. Holman	4746
Arminia M. Ladd	4623
Betty J. McKinley	5545
Richard L. Miller	4762
Anita J. Osterquist	2544
Harry J. Pittenger	2514
*Katherine H. Preston	4721
Alice G. Woodley	4623
*Mary K. Wormeli	4623
California	
Robert D. Bryant, Antioch	8232-1
Gertrude A. Martin, Livermore	8212-3
*Richard E. Nepple, Los Angeles	8151-1
Robert B. Clement, San Francisco	8114-1
James F. Trantham, Stockton	8114-3
Ruth M. Spence, Pleasanton	8223-1
Regina P. Wadach, Livermore	8114-1
Florida	
Joseph B. Rivard, Gainesville	5224
Illinois	
Donald R. Kuehl, Mendota	1613
Iowa	
Robert M. Workhoven, West Branch	1615
Billy C. Moore, Burlington	8152-1
Maryland	
Avery M. Gage, Silver Spring	1232
Howard M. Shambarger, Aberdeen	1615
Michigan	
Albert A. Heckes, Midland	1232
Montana	
Richard J. Siebenforcher, Missoula	4152
Ohio	
William R. Hanlin, Dayton	1611
Aubrey L. Nation, Cincinnati	8114-3
Oklahoma	
Milton R. Prucha, Stillwater	2541
Texas	
Donald L. Edens, College Station	1652
Virginia	
Frank A. Zack, Roanoke	4962
* Denotes rehired	
Returned from Leave	
Edward F. Schaefer, El Cerrito, Calif.	8114-1



Margie Huelsewede and Fred Vook —ski talk amid physical science research—

Speaking of Reporters

Margie Huelsewede Covers News in Physical Science Research Group

This is another article telling of the volunteer reporters who contribute to the Sandia Lab News.

Margie Huelsewede has a definite problem when it comes to reporting for the Sandia Lab News on activities of Physical Sciences Research Department. The conversation in either building 824 or the Van de Graaff laboratory can be pretty technical, unless it's about skiing.

Nevertheless, Margie finds both the work and the reporting interesting.

She has been with the department for a year, but she previously worked for Sandia Corporation from October 1956-August 1957.

Although a native of St. Louis, Margie enjoys living in New Mexico and has taken up several new activities since she has been here: target shooting and hiking in the mountains. She was already interested in bowling, music and TV westerns.

CARE Reports

Christmas charity was back in the minds of members of organization 5120 this month.

Employees in that group collected \$87 before Dec. 25 which was sent to CARE to be used to assist persons in foreign countries. CARE officials recently gave an accounting of how the money was used: technical books in the Philippines; classroom supplies and physical education equipment in Libya; medical books and periodicals in India; vocational training tools in Italy, and block making machines, and electricians, masons, plumbers and carpenters tools in Colombia.

Toastmasters Seek Members

Manzano Toastmasters Club 1729 is conducting a membership drive for men wishing to improve their public speaking ability. Those interested must attend two meetings as guests before becoming candidates for membership.

The club meets Wednesday at 6:30 p.m. at the Coronado Club. For information contact President Roman Heuer (1217), ext. 23237, or Educational Vice President William T. Sutton, AL 6-2512.

On Church Council

Officially organized last Sunday, the Church of the Good Shepherd, United Church of Christ, has several Sandians active in its formation. On the Church Council are Dave Poli (2552), Jim Schaeffer (1473), Don Roth (1222), Floyd Coppage (1471), and Augie Binder (1265).

The group has been meeting since last August and hopes to construct a building at Juan Tabo Road and Brentwood Hills Blvd. this year.

Coronado Club Offers Ballroom Dancing Classes for Members

Ballroom dancing lessons for both beginners and advanced students will again be offered to Coronado Club members starting March 16.

The 10 week course will be held on Mondays with instruction for beginners held from 7-8:30 p. m. and for advanced students from 8:30-10:00 p.m.

American dances will be taught by Jenifer and Gail Ward (4763) while Holly (4131) and Charles Balistrere (5512) will demonstrate the steps for Latin numbers.

Price of the course is \$6 per person.



The Sandia Lab News is an official publication of the Sandia Corporation, Albuquerque, N. M. Office Bldg. 829, Public Relations Division

Editor: Robert S. Gillespie

Staff

Donald E. Graham, Cherry L. Burns, June Leonard
William A. Jenkins, Livermore Laboratory, Livermore, Calif.



Telephone Sandia Base
Alpine 6-4411
Ext. 25253, 26135



Deadline
Friday noon of week
prior to publication



Member Association of Nuclear Editors, Border Council of Industrial Editors, and affiliated with International Council of Industrial Editors.

Students to Hear Maydew Talk on Wind Tunnel Work

"Wind Tunnel Testing," a talk describing work of Sandia's Aerodynamic Department 5140, will be presented to science students of Mountainair High School March 13 by R. C. Maydew, supervisor of Experimental Aerodynamics Division 5142.

Mr. Maydew will discuss the operation of Sandia's new hypersonic wind tunnel, now in the design stages, and show some unclassified slides and movies of tests of Sandia's high altitude research rockets at the Tonopah Test Range.

The talk was arranged by the New Mexico Council of Scientific and Technical Societies and is part of a program to promote more interest among students in education for scientific careers.

MIT Student Takes Time from Classes To Fill Co-op Program Requirements

Employment with Sandia Corporation means for Thomas J. Tisch an opportunity to combine practical experience with formal education.

"Tom" is a co-operative student from Massachusetts Institute of Technology. At the end of the sophomore year MIT students in certain fields are given their program. If they so desire the students contact various industries for a job in their field.

Last year Tom attended summer school in order to be able to finish with his class in June 1960 despite having been in Albuquerque for six months.

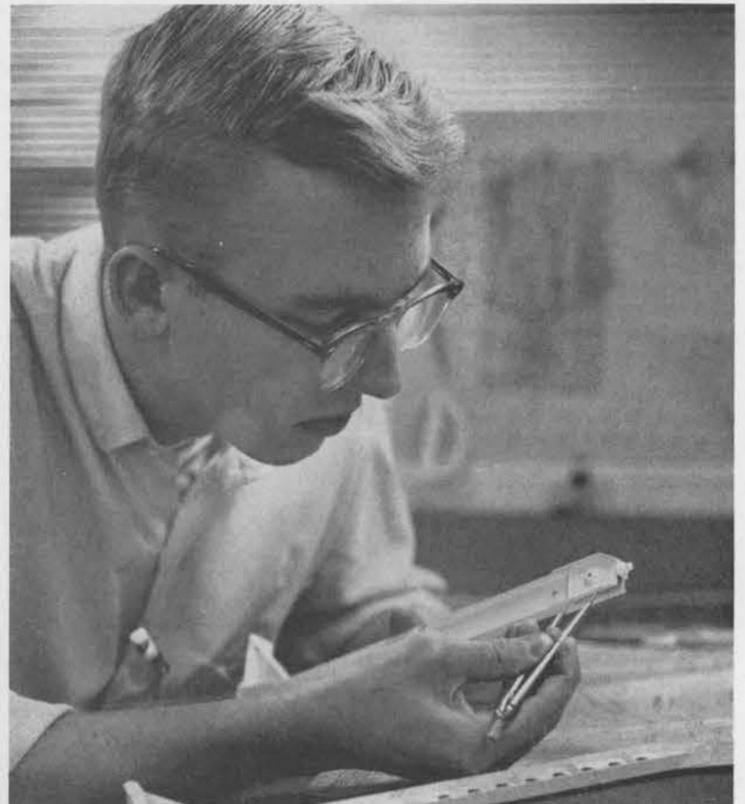
Studying to be a mechanical engineer, Tom is working on experimental apparatus designs in Section 5143-1. According to his supervisor, W. L. Wood, "Tom

is taking projects as they come along, the same as anyone else, according to what he can handle."

Tom is from Michigan and has never before been in the Southwest, nor has he ever worked for industry. He explains, "I'm here because the head of my department at MIT, Dr. William Murray, recommended Sandia Corporation."

At Computer Conference

Joe Weihe (5122), Burt Lindsay (5126) and W. W. Bledsoe (5120) are attending the Western Joint Computer Conference in San Francisco this week. The meeting is sponsored jointly by the Institute of Radio Engineers, American Institute of Electrical Engineers and the Association for Computing Machinery.



ROCKET LAUNCHER scale model is studied for design modifications by Thomas Tisch (5143-1), co-operative student from Massachusetts Institute of Technology, working at Sandia six months.



WINNER of the double elimination tournament held by the Sandia Corporation Employees Basketball Association was the 4100 team. In the first row are George Bellar, Clarence Ray and Leo Cordova.

Standing are Joe Costales, Gilbert Baca, Frank Comiskey and Tom Patterson. Members not shown are Jack Thompson, Joseph Gallegos, Jimmy Olivas, Archie Smart (all AEC), and Frank Lucero.

Meteorological Society Members Will Hear Two Sandia Scientists Speak

Two Sandia Corporation employees will present technical talks at a meeting of the Albuquerque Chapter of the American Meteorological Society Monday, March 9.

"High Altitude Climatological Data" will be discussed by B. N. Charles (5121) and "Local Winds" will be presented by R. L. Levesque (5243).

The meeting will begin at 7:30 p.m. in the Administrative Building, University of New Mexico. Reservations to attend may be made by contacting Tim Raftery (5243), chairman.

Assist to Be Given Career Day By Sandia Employees

For the fourth year Sandia Corporation employees will participate in "Career Day" activities at Albuquerque high schools.

Valley high has set March 11 for its morning of career counseling by persons in various professions.

Information will be offered students on the qualifications needed for various professions, opportunities available and challenges offered.

Sandians who will take part in the program and their fields include: W. T. Botner (5142-2), aeronautical engineering; D. F. Finocchio (1463), chemical engineering; F. F. Norris (4541), civil engineering; F. F. Eichert (4410), drafting; Gino Carli (1542-3), and R. W. Roberts (1542) electrical engineering; Walter Hall (4250), machinist; J. L. Tischhauser (5242-2), mathematics; Frank Hudson (5151), physics; H. O. Pierson (1625-2), plastics, and Connie L. Steputis (4621-2), secretarial.

John Chapp to Talk on Manuscripts For Tech Writers

The Albuquerque Chapter of the Society of Technical Writers and Editors will meet Tuesday, March 17, at 7:30 p.m. in the Community Room of the East Central Branch of the Albuquerque National Bank.

"The Importance of the Manuscript in Audio Visual Presentations" will be discussed by John Chapp, Lytle Engineering and Manufacturing Co.

For reservations contact either Dick Jackson or Jim Murray (both 4421), ext. 39238.

Appoint T. A. Askew To New Position in Office of Security

Thomas A. Askew, Jr. has been promoted to Administrative Officer in the Office of Security at the Atomic Energy Commission's Albuquerque Operations Office. He succeeds James M. Kier, who is now Administrative Officer at ALO's San Antonio (Texas) Area Office.



T. A. Askew

Mr. Askew has been Chief of the Review Branch, Personnel Security Division, Office of Security, since July 22, 1957. His successor in that position will be announced later. In his new post, he will perform administrative functions for ALO's Office of Security, which is directed by W. Lee Hancock.

4100 Team Wins Cage Tourney

Team 4100 emerged champion of the double elimination tournament held last week at the season's close by the Sandia Corporation Employees Basketball Association. Sparked by Fred Comiskey who averaged 27 points per game, 4100 first defeated 5200, 74-48, then beat 5500, 77-33, dropped 2400-I, 73-30 and in the finals clobbered 1600, 69-36.

The 1600 team, cellar dwellers during league play, made a valiant bid for the tournament championship in an upset string of victories. Losing their first game to 2400-I, 80-50, 1600 bounced back to beat 5100, 55-52. Then 1600 beat 5500, 44-24, and went on to a close hard-fought 43-42 win over 7400.

Next game for 1600 was the semi-finals with 2400-I, a complete reversal of the first game, with 1600 coming out on top, 61-42.

Cliff Erickson Wins Lab Golf Tournament

Rain, wind and cold couldn't keep Cliff Erickson (8114-1) from the Rad Lab Recreation Association golf tourney at Chabot Country Club recently.

As a result Cliff won the low net trophy, thus upholding the Livermore Laboratory record of winning at least one trophy in every tournament. Lucky he won, too, since he was the only Sandian to enter.



CHAMPIONS of the Sandia Corporation Basketball Association are pictured here with the large traveling trophy awarded the winning team each year. Defeated only once in league play, 2400-1 ended the season with 12 wins. In the first row are (L to

R) Dave Paschal, manager, Jim Abeyta, Jim Sanchez and Buddy Sanchez. Standing are Louis Sanders, Larry Tichenor, Warner Jones and Johnny Ayala, Leo Chavez, another member of the team, was unable to make the photo appointment.

Dep't 1610 Reorganizes to Increase Available Service, Technical Support

Test Laboratory Department 1610 has been reorganized with the purpose of giving increased service and technical support in the areas it serves in addition to balancing the workload within the Department.

Headed by W. A. Gardner, the department has added one new division, 1615, with three sections under it, and created another section in 1613.

Area III Laboratory 1615, under P. H. Adams, was created because of the size of the section that was required to operate Area III, and the addition of new facilities planned in the next 12 months. The three sections will divide test operation responsibilities among them.

A new section in Project Division 1613 will work directly with Organization 1200 in the planning and coordination of environmental systems tests. The other two sections will remain as now organized. A. W. Reger heads Division 1613.

"The reorganization will allow key technical personnel to establish specialist areas in environmental testing," Mr. Gardner said. "It will ensure that proper test records will be kept and that the best of current testing methods will be used in all test planning."

Component Test Division 1611, under Paul Syroid, will handle testing of all components, wheth-

er the test is for development, tool-made samples, quality assurance or production. Area I Laboratory 1612, headed by Don Williams, Jr., will operate and maintain all the environmental equipment in Buildings 849, 859, 860, 864, 913 and 917.

Instrumentation Division 1614, under J. W. Pearce, will have one section supporting systems testing, one for component testing, and one responsible for planning and designing new readout techniques. The fourth section is the instrument issue group as it now exists.

Movie Schedule

The Sandia Corporation noon hour movie schedule for the coming two weeks is:

Mar. 10-13—Movie "A" is "Brute Force" starring Burt Lancaster and Ann Blyth. Movie "B" is "Taza, Son of Cochise" with Rock Hudson and Barbara Rush.

March 17-20—Movie "A" is "The Mikado" starring Kenny Baker and Martyn Green. Movie "B" is "The Rawhide Years" with Tony Curtis and Colleen Miller.

All these movies are full length features and are shown in two parts starting at 12:05. Movie "A" will be shown in room B-6 of Bldg. 802 on Tuesdays and Wednesdays and in Bldg. 849 on Thursdays and Fridays. The schedule for Movie "B" is the reverse.

AIEE Members Meet Monday, March 16

A planning session for coming activities is scheduled for the Albuquerque Area Chapter of the American Institute of Industrial Engineers at a meeting Monday, March 16. The program will also include a labor-management relations movie.

The meeting will begin at 7 p.m. in Rm. 201 of the Electrical Engineering Building, University of New Mexico, according to Homer McIlroy (2511), publicity chairman.

Nuclear Explosives Promise to Open New Earth Moving Fields

"Earth Moving by Nuclear Explosives" is the title of a paper to be presented by M. L. Merritt (5110) today in Salt Lake City, Utah. He is addressing the Rocky Mountain District Conference of the American Society for Testing Materials.

"Nuclear explosives promise to open new fields in peacetime earth-moving projects in spite of their undesirable side effects," Dr. Merritt's paper reports. "Radioactive fallout can be reduced by the use of thermonuclear devices since they produce less fallout in ratio to yield. Activation of the surrounding soil by heavy neutron output can be reduced by enclosing the explosive with a neutron-absorbing blanket. The residual fallout problem and the long-range blast problem can then be controlled by careful choice of meteorology at the time of the burst."

Long interested in explosive forces, Dr. Merritt has written several articles on the subject including "Blast Loading of Idealized Structures Using High Ex-

plosives" which was published by the University of California, Los Angeles, in 1952. More recently Dr. Merritt has participated with scientists from UCRL and other agencies in feasibility studies leading to the use of nuclear explosives for such purposes as the creation of a harbor in Alaska.

Some of the findings of this study are included in the paper being presented in Salt Lake City. Feasibility and costs of using nuclear energy for excavating harbors, digging canals, breaking rock for fill material and excavating sedimentation basins are reported.

Dr. Merritt earned his BS degree from the California Institute of Technology in 1943 and his PhD in Physics in 1950 from the same school.

Prior to joining Sandia in 1950 Dr. Merritt worked four years as a test engineer with the General Electric Company at Syracuse, N. Y., from 1943 to 1946. Since joining Sandia, he has advanced through several supervisory positions in the Research organiza-



Dr. M. L. Merritt

tion to his present position as Manager of the Nuclear Burst Department 5110.

He has participated in several full scale nuclear test series in Nevada and in the Pacific.

State Legislators Told Education Must Surpass Russians in Efforts

"Our survival is at stake," Dr. M. J. Kelly, Chairman of the Board of Directors of Bell Telephone Laboratories, told a joint session of the New Mexico Legislature last week.

Dr. Kelly was referring to our keeping up with and ahead of Russia in producing scientists and technicians.

He explained to the legislators the Russian educational system and pointed out that Russians are now far surpassing us in the training of scientists and technicians. "They are now doing a job of greater magnitude and effectiveness," he said.

The solution to this problem, as set forth by Dr. Kelly, will be found in stricter requirements in

secondary education, higher pay for college instructors, more money for research and college facilities and greater promotion of graduate level studies.

He termed the pay and treatment of college instructors "shameful."

"We are exploiting our teachers," he said, and pointed out that they are "being siphoned off to industry" in increasing numbers.

"It's a slow way to die," he said, predicting that if the United States does not increase its educational opportunities and improve its educational system within two decades Russia will be in a position to dictate.

AEC Seeking Bids For Building New Acoustic Facility

The Atomic Energy Commission last week called for bids for construction of Sandia Laboratory's Acoustic Test Facility to be located in Area III. To be utilized by Test Laboratory Department 1610 to create severe noise fields, an environment to which nuclear weapons may be subjected, the facility is expected to cost between \$80,000 and \$90,000.

The building will be of reinforced concrete construction and contain approximately 1,700 sq. ft. of space. Lighting, power, heating, plumbing and signal and fire alarm connections plus outside utility connections, fencing, gravel surfacing and security lighting will be included in the contract.

Work is to be completed within 130 days after the successful bidder receives notice to proceed, the AEC announced.

SNT to Hear Talk By NOL Official

Society for Nondestructive Testing will hold a dinner meeting at the Los Alamos Country Club Thursday, March 12 at 6:30 p.m.

Speaker for the technical session at 8 is Ed L. Criscuolo, Chief, Nondestructive Analyst Group, Naval Ordnance Laboratory, Silver Spring, Md. He will talk on "Radiograph Applied to Ordnance Design and Evaluation." The meeting will be held in the Health Research Laboratory seminar room.

For dinner reservations contact Max Littleton (5111), ext. 46138.



OPEN VIOLATIONS of parking regulations and safety practices are shown by this picture. Two cars are parked at the end of parking ramps creating safety hazards during peak traffic periods. At the time this photo was taken, there were open spaces in this and other parking lots close by. Plant Security Patrol Division (4842) is currently issuing tickets for similar parking violations.



DISCOURTESY in Sandia parking lots is clearly illustrated by this photo of a single car occupying enough parking space for two. Plant Security Patrol Division (4832) is currently issuing tickets to such violators of parking regulations. The

tickets are followed by a memo to the employee's supervisor. Aim of the campaign is not to "rap knuckles" but to promote good parking and safety practices among all Sandia employees and also to assure ample parking space for everyone.

Si Herman Discusses Normality for 'Y' Club

Si Herman (4654) recently spoke to members of the Y's Club, adult group of the YMCA, on "What is Normality?"

He said that the determination of normality and abnormality is difficult because it depends upon many factors. Cultural standards, the total culture vs. sub-cultures, and what a person likes and what he doesn't like all affect reactions of individuals.

Si received his Master's and BS degrees in Psychology from Wayne State University and has completed his course work and residency requirements for his PhD at Wayne. Before coming to Sandia, he had worked at General Motors Institute, Kaiser-Frazier Corp. and as a clinical psychologist at Herman-Kiefer Hospital in Detroit.

Poison Control Centers Available to Give Information in Emergency Cases

Spring means cans of paint, insecticides and sprays seemingly enticing to children. With the ever present danger of home cleaners of unknown ingredients or an overdose of medicine, parents are encouraged to know their nearest Poison Control Center. These centers can report quickly the ingredients in most commercially available products. With this knowledge doctors may treat patients promptly.

Parents or members of the family should first contact the family physician, hospital or other usual channel for professional medical help. However, there may be instances where such help cannot be obtained, and, also, where the professional person himself may not be familiar with the contents of a particular solution.

The Poison Control Centers, which are now located in most states, are prepared to help in such instances.

In New Mexico the Center is located at the Bernalillo County-In-

dian Hospital, 2211 Lomas Blvd. NE, Albuquerque, telephone AL 5-8703.

The nine Centers in California include: Central Emergency Hospital, 135 Polk, San Francisco, Tel. HEMlock 1-2800; Children's Hospital, 3700 California St., San Francisco, Tel. BAYview 1-1200; Children's Hospital Society of Los Angeles, 4614 Sunset Blvd., Los Angeles, Tel. NORmandy 4-2121.

AWS Members to Discuss Question of Qualified Welders

"What is a Qualified Welder?" is the question to be asked and discussed at a meeting of the American Welding Society Thursday, March 12. Speaker will be Willis G. Groth, welding engineer, ACF Industries, Inc.

The meeting will begin at 7 p.m. in the conference room of the R. L. Harrison Co., 1801 Fourth St. N.W., according to Vince Nelson (1621), vice chairman.



Sandia Corporation Has Worked
30 DAYS
Without a Disabling Injury

HERE'S WHY...

Sandia employees know that caution is not cowardly and carelessness is not courage. Only the foolhardy neglect the rules of safety and tempt the hand of fate. Safety rules are known at Sandia and safety equipment is used—thus employees are safer on the job than in their own homes.

Service Awards

15 Year Pin



Conrad W. Roeschke
1265
March 17, 1944



Richard C. Porter
2551
March 7, 1949

Flaviano Sanchez
4573
March 7, 1949

Five Year Pins
March 7-20

Willard H. Farness 4511, L. Virginia Glass 4623, William A. Flynn 4842, Walter Cordak 5232, Loradon L. Duben 4623, Bessie Mae Roach 8232, Wilbur N. Leamon 5322, Tom C. Garcia 2711, Eugene W. Stemple 4581, Irl Vernon Beall 4582, Thomas T. Carbin 4842, James V. Rogers 1215, Florence W. McCabe 4623, William E. Walker 5143, Mary J. Kristensen 4623, Gloria L. Sannella 4843, Frank R. Emig 4412, Manuel Silva 4515.

Two Year Certificates
March 7-13

Rodney E. Stambaugh 5429, Herman R. Johnson 8115, Robert C. Thomas 2532, Garnet I. Mastin 2231, Paul J. Sikkil 4511, George A. Dupre 4224, Gladys L. Goodlive 4623, Dorothy M. Jordan 4623, David D. Hurley 8231, Eddie J. Berry 8212, Melba S. Fitzgerald 8114, Irving Auerbach 5150, Merlene E. Medina 2533, Shawkeet Hindi 4766, Sue B. Probst 4766, Clement J. Wagner 2554, Manley O. Vanorsdol 4152, Bert R. Anderson 5216, Sanford L. Erickson 1622, Horace Lucero 2233, Jerry T. Cole 4762.

March 14-20
Sidney C. Bowie 1245, Melba J. Nickolds 4762, Jean B. Yancey 4623, Robert W. Healy 1626, James F. Gallagher 4112, Betty J. Musgraves 4211, Tomas Lucero 4574, Henry G. Gallegos 4763, Philip A. Gelt 1456, F. J. Sparber 1452, Dale P. Wire 8162, Joyce P. Willford 8114, Sidney P. Timmings 8222, John Cordial 8224, Joan L. Nielsen 8224, Edward E. Brass 4112, Eugene D. Cummings 4231, Alex F. Chabrek 1474, J. Archie Lackey 5241, C. L. Fitzgerald 4762, Dennis B. Hayes 4762, Augustin Pohl 4574.

Jacoba Mata 4212, John Christian 1613, Thomas S. Mickey 4221, Florence I. Flynn 4761, Emma M. Benderman 4766, Florence F. Moore 4623, Gregorita Esquivel 4623, June R. Kurpiers 2231.

10 Year Pins



Edward W. Baldwin
8210
March 7, 1949

Edward L. Johnson
4716
March 7, 1949



Armstead Arrington
2232
March 7, 1949

Jack R. Smith
2713
March 10, 1949



Yale H. Knox
4763
March 16, 1949

Son, Daughter Of Two Employees Awarded Honors

Children of two Livermore Laboratory employees have received national scholastic recognition.

John T. Doyan, 18, a senior at Livermore High School, and the son of Juan Doyan (8114-1), and Joanne C. Watkins, 17, also a senior at the same school, and the daughter of Dick Watkins (8162-1), were recently awarded certificates of merit from the National Merit Scholarship Corporation, Evanston, Ill.

This annual award is made to finalists in a national competitive contest. Only about one-half of one per cent of the secondary school seniors in the United States reach the contest finals. About 10,000 seniors throughout the country have been awarded certificates and from this group, 1000 students will be awarded a year's scholarship at the school of their choice.

Both John and Joanne are now enrolled in an IBM computer class. Joanne intends to continue her science education at either Stanford or the University of California, while John hopes to attend San Jose State College or Cal next fall.

Mountain Club Sets Two Member Trips For This Month

Trips to two easily accessible, yet seldom visited spots, are on the New Mexico Mountain Club schedule for early March.

Members and other interested persons will travel north of Moriarty on Sunday, Mar. 8, to a geological dyke which contains numerous Indian petroglyphs.

On Saturday, Mar. 14, the group will visit Peñasco Springs in the Jemez Mountains where there are numerous warm water springs and also alabaster caves. David Stea (1592) will lead this outing.

All trips start at Nob Hill at 8 a.m.

ASM Meets March 19

"Metallurgy of Uranium" will be discussed at a dinner meeting of the Albuquerque Section of the American Society for Metals Thursday, March 19. Speaker will be John A. Fellows, head of Metallurgical Development for the Mallinckrodt Chemical Works, St. Louis, Mo.

The meeting will begin at 6:30 p.m. at the Silver Spur Restaurant. For reservations contact Don Adolphson (1621), ext. 42250.

BTL Research Scientist To Speak Before ASME Mar. 18

"The Adhesion of Solids" will be discussed at a meeting of the New Mexico Section of the American Society of Mechanical Engineers Wednesday, March 18. Speaker will be Dr. Orson L. Anderson of the research staff of the Bell Telephone Laboratories, Murray Hill, N. J.

A former Army test pilot and university educator, Dr. Anderson joined BTL in 1951. His research activities include experiments in stress relaxation of metals, experiments in the adhesion of solids, theory in the mechanical properties of glass, and the construction of a general purpose high pressure laboratory.

Dr. Anderson is currently on a nationwide lecture tour sponsored by ASME. He holds a BS degree in Mechanical Engineering, MS in physics, and a PhD in physics from the University of Utah. He was an instructor there for three years prior to joining BTL.

He is a former chairman of the Glass Division of the American



Dr. O. L. Anderson

Ceramic Society and was presented the S. B. Meyer Award by the Society in 1954 for his original work in the rheology of glass.

The meeting will be in two parts—dinner at the Triangle Restaurant beginning at 6:30 p.m. and the technical session will begin at 7:30 p.m. in Rm. 220 of Mitchell Hall, University of New Mexico.

"All Sandia research, development and technical personnel are invited to attend this meeting," Gene Gardner (2113), program chairman, says. For reservations contact Gene, ext. 33156.

Cost Reduction Workshop to Be Offered by AIEE

The American Institute of Industrial Engineers' Albuquerque chapter will sponsor a cost reduction workshop April 4 featuring Phil Carroll, well-known consulting engineer and author.

The workshop will be held at the Western Skies Hotel from 8:30 a.m. to 4:30 p.m.

Mr. Carroll is currently the national president of the Society for Advancement of Management and his awards and honors include the SAM Industrial Incentive Award for 1953 and the Gilbreth Medal for 1950. His published works include many authoritative textbooks and articles.

Mr. Carroll's experiences in over 200 plants have included practical applications of timetudy measurement to wage incentives for direct and indirect labor. This marks the first time he has participated in a program in the Southwest.

Tickets for the workshop, which will include luncheon, coffee breaks and workshop materials, will be \$15 for members of AIEE.

Square Dancers to Meet at Grants

Central District Square Dance Association members will meet in Grants, N. Mex., March 14 for a Square Dance Jamboree. The event will be held in the Anacoda Recreation Hall starting at 8 p.m.

Callers from 12 central district clubs will be there, and there will also be door prizes, entertainment and free refreshments. For further information contact Walter Eden (4511), AL 6-3813.

SHOPPING CENTER

CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday.

RULES

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization.

FOR SALE

35mm VOIGTLANDER Prominent F 1.5 lens, 1/500 sec., coupled rangefinder, w/case, lens shade, filters, cost \$310, sell \$150 or best offer. Bliss, AX 9-4197.

RCA MAHOGANY Console radio-phonograph combination (78 rpm); maple trim Simmons studio couch. Shoemaker, AL 5-8820.

SIAMESE KITTEN, 4 months old, \$10. Luhn, Ext. 48196.

POWER MOWER, rotary, 19", 4-cycle engine, \$35; trailer table, \$20; mahogany dining table w/6 chairs, \$65. Eversgerd, AL 6-6345.

'47 CHEVROLET, 2 door, rebuilt engine, 1 year old battery, brakes relined 1 year ago, \$90. Fielseth, Ext. 20298 after 5 weekdays.

SPRINGER SPANIEL pups (liver and white), top pedigree, excellent show and hunting stock, available mid-March. Westman, AL 5-6048.

RECORDING TAPE, unused, 1 mil "Mylar" 900 ft. and 1800 ft. reels. Sedlack, AL 6-2819.

MAN'S BICYCLE, Schwinn, \$45. Hurford, Ext. 46281.

'56 FORD Fairlane Fordomatic, Thunderbird motor; 17 cu. ft. National freezer, used six months, assume payments. Trujillo, AX 9-4911 after 5:30 p.m.

CHILD'S SWING, welded pipe, \$4. Johnson, AL 5-5427.

CRIB, no mattress, \$10. Villanueva, 2209 Milton Ct. NW, CH 3-8788 after 5:30.

24" GIRL'S bicycle, English lightweight, \$15. Rice, AX 9-1261 after 5:30.

'58 RENAULT Dauphine, cost \$1845, sell \$1425. Abbott, Ext. 44266.

'47 FORD sedan, new battery, generator, regulator, '59 licenses, \$125. Syroid, AL 6-3943, 1817 California NE.

POSTURE TABLE, Stauffer, \$200. Senn, AL 5-3109 after 5 p.m., weekends.

'56 FORD Pickup, 1/2 ton V-8, R&H, snow tires on rear, clean, \$1195. Weidan, AL 5-5855.

2 BRM HOUSE, hardwood floors, fireplace, 1/2 basement, 3 blocks from Fatima Church, \$65 monthly payments, 4% loan. Torres, AL 6-6600.

SHOPPING CENTER

SEWING MACHINE, Kenmore electric, walnut cabinet model, \$48; Jenny Lind maple bed, twin-size w/mattress, used one week, \$35. Newell, AL 6-7435 after 5.

AUTOMATIC WASHER, Coronado, \$40. Hesselbarth, AL 6-1720.

'53 NASH Rambler, 2 door, overdrive, R&H, continental kit, \$500. Vigil, CH 3-1327 after 5:30.

BABY CARRIAGE, Welsh Boodle buggy, \$8. Teisher, Ext. 39283.

'50 PLYMOUTH, 2-door sedan, completely overhauled November, see at 8105 Sar Joquin SE, asking \$225. Clark, AM 8-1139 after 7 p.m.

'48 FORD V-8 Pickup, 4-speed, 1/2 ton. Tiley, Ext. 71229, Star Rt. 2, Box 40, Los Lunas, N. M.

PICKUP BED, new 4 ft. x 8 ft., for 1958 Chevrolet, front end panel removed, good for trailer, \$40, trade for 6:50x16 ply tires. Stuart, AL 5-0661.

3 BRM HOME, Hoffman Royal, 1 1/4 baths, den, garage, circular drive, drapes, shades, carpeting throughout, disposal, dishwasher. Preston, AX 9-1948 after 5:30 weekdays.

'56 MERCURY Monterey, 9 passenger station wagon, R&H, new tires and extras, McMullen, CH 3-9825.

LIVING ROOM SUITE, three piece rose colored; limed oak coffee table and end tables. Muchow, AX 9-1813.

WELLER SANDER, new, platen size 3 3/4 x 7 1/2 inches, original cost \$16.95, sell \$11. Fite, AL 5-6943.

SILVER POODLE, small miniature, AKC, 5 months old, \$150. Wilson, Ext. 42242.

POLAROID LAND Camera, Model No. 700, complete w/kit, used twice, \$150 or best offer. Baldonado, Ext. 33167, 1406 Bridge Blvd. SW.

35mm CAMERA, Model 6 Alpa, single lens reflex, f/1.8 Apochromat lens, case; retail \$487, sell \$285. Siser, Ext. 25173.

2 BRM HOME, brick, many extras, plus complete sprinkler system, near grade school. Smith, AX 9-7160.

GE ULTRASONIC record player and radio in birch cabinet; maple dresser w/mirror, night table, rocker chair, end tables. Parisi, AL 6-4264.

26" GIRL'S bicycle, J. C. Higgins Austrian make, 3-speed, hand brakes. \$25. Mueller, AX 9-1079, 2728 Vermont NE.

BABY CRIB, oak, needs some gluing, \$5; hand hair clippers, \$1. Baxter, 1610 Bayita Lane NW, DI 4-7601.

AIR COMPRESSOR, Westinghouse T-1, 2 cyl., 2100 cu. in. tank, automatic controls and regulator valve, less motor, \$30; casement window, steel, glazed, style 2313, \$8. Bentz, ext. 36146.

BLOND DROPLEAF table w/four chairs, \$50; two end tables, step table, blond, \$7.50 each; overstuffed club chairs, green \$25, red \$12.50. Giles, AX 9-3119.

SECTIONAL SOFA, two piece, \$70. Ault, AX 9-2054.

UPRIGHT FREEZER, Hotpoint 12 cu. ft., 16 months old, original retail price \$349.95, will sell for \$220. Hook, AM 8-0291.

BEDROOM SET, 3 piece, springs and mattress included, \$75 or best offer. Shaw, AX 9-0611.

SHOPPING CENTER

NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Mar. 13

35 FT. TRAILER, New Moon two bedroom reasonable. Fletcher, AL 5-2970, see at 6614 Cochiti Rd. SE.

'51 PLYMOUTH station wagon, rebuilt motor, new seat covers, re-caps, body good. Torres, AL 5-7124.

3 BRM MOSSMAN, 1 1/4 baths, carpeting, cooler, drapes, landscaped. Sedgwick, 3224 California NE, AM 8-0820.

'57 MGA COUPE, completely equipped, will sell or trade equity for older model car. Van Fleet, AM 8-0730 after 4 p.m.

GE STOVE, turquoise 40" x 25" deluxe model; automatic Hotpoint washer. Moving, will sell for best offer. Foster, 508 Hermosa Dr. SE.

LARGE COPPER hood, light, fan, \$30; gas range, \$40; book "Shop Mathematics Vol. 1" \$2.75. Nelson, AX 9-0884.

PORTABLE WASHER, small, \$15 or best offer. Albert, ext. 35180.

'55 FORD Fairlane club sedan V-8, low mileage, fordomatic, PS/PB, tinted glass, new nylon tubeless tires, two tone paint. O'Trimble, AX 9-5168.

SIMMONS MATTRESS, double size, and double coil springs. Gillette, AX 9-0727.

BABY CRIB, mattress and matching chest, \$50; studio couch, \$25; 8 ft. steel garage door, less hardware, \$15. Lowery AX 9-5177.

SEWING MACHINE, White cabinet model, \$40. Hoagland, AX 9-7097.

CLARINET, Bundy B-flat with case, cost \$140 new, sell for \$70; Kenmore deluxe 1200-1350 watt automatic electric heater, \$25. Jiron, AM 8-8573.

DINETTE SET with four chairs, \$20; 21" table model TV, \$25. Blomberg, AX 9-7404 after 5:30 p.m.

'56 BUICK Roadmaster Riviera, all power, 17,000 miles. \$1775 or best offer. Bryant, AL 6-0139.

'55 DODGE V-8 pickup, 1/2 ton, 4-speed transmission, heavy duty, R&H. McKelvey, UN 4-4715, Belen, N. M.

HORSE, small brown gelding, saddle, blanket and bridle. Reins good, plenty of spirit for young boy, \$135. Landis, AM 8-8472.

PARAKEETS, two, and a cage. \$11 value, sell for \$7. Silva, CH 2-6759.

PLAY PEN, \$7; cocktail dresses; blue lace, size 13-14; cocoa brown, size 9-10, blue ballerina length formal, size 9-10, \$15 each. Bradley, AX 9-6037.

STUDIO COUCH, slip-covered, \$25. Mahuron, AM 8-1585.

'57 PLYMOUTH Belvedere 4-door w/Torqueflite, R&H, and WW, custom seat covers, \$1700, will consider trade. Wiesch, AL 6-7236.

'57 PLYMOUTH, 9 pass. station wagon, Torqueflite, R&H, power steering, 18,000 miles, will take older car for equity. Chase, AX 9-7321 after 5:30.

SHOPPING CENTER

SAVAGE 99EG .250/3000, J4 scope, Redfield mount, sling, Lyman 310 loading tool, \$75. Millwright, ext. 21137.

ELECTRIC ROASTER, Westinghouse, w/metal cabinet, combination griddle and broiler, \$20; McClellan saddle w/quilted saddle blanket, 11 1/2" seat, \$30. Stearns, ext. 24263.

RADIO STATION, complete amateur, \$445. Elmac, AF-67TX, SX-100. Rcvr. Balun coils and antenna mast. Drummond, AL 6-0144.

HIGHBACK ROCKER, New England style. Bowen, CH 3-4730, 405 Girard SE.

'49 AUSTIN Roadster, A-90, new paint and top, make offer. Dove, AL 5-8169.

SIAMESE KITTENS, 7 weeks old, house-broken, 1 blue point, \$15; 2 seal point females, \$10. Uhl, AM 8-1855, 501 Charleston NE.

BOOKCASE BED, box springs and inner-spring mattress, \$30; 2-wheel trailer, \$35; radio-phonograph, 3-speed, \$30; typewriter, \$20. Barnes, ext. 24155.

SILVERTONE GUITAR, amplifier and dual control, original cost \$425, make offer. Swartzbaugh, AL 5-9890.

UPRIGHT SWEEPER, Hoover, headlight and 2-speed motor, \$15. Want old handguns or rifles, will pay cash. Smith, AX 9-1096, 8607 Menaul NE.

3 BRM HOME, SE Heights, air conditioned, parquet floor, walled, close to schools and shopping, \$1600, total \$12,500. French, AL 6-1995.

3 BRM HOME, 1 1/4 baths, large kitchen and utility area, double garage, covered patio, sprinklers, southwestern exterior, landscaping. Calek, AX 9-7452.

'58 VOLKSWAGEN, blue w/sunroof. Kidd, AX 9-0035.

3 BRM HOME, 1 1/4 baths, built-in range, disposal, fireplace, h.w. floors, pitch roof, frame stucco, air conditioned, forced heat, 4 1/2% GI. Neel, AX 9-7363.

HI FI AMPLIFIER, 50 watt, \$75 or will trade for a good 15" hi-fi speaker. Boyes, AX 9-2569.

REMINGTON MODEL 550A Automatic .22 rifle w/tubular feeds, used very little, \$30. Cox, AX 9-0480 after 5.

CEMETERY LOTS, three in Sunset Memorial Park, sell or trade, \$225 total. Villalla, AL 6-1881.

'57 MUSTANG Deluxe motorcycle, 4-speed, used 2 months, all accessories, new \$600 sell \$360. Bigley, AL 5-0069, 4801 Menaul NE.

HALLICRAFTER SX101, best offer. Easton, AL 5-2758.

SIMMONS BED-DIVAN, \$75; electric range, Frigidaire, \$100; platform rocker, \$20, coffee table, \$7; antique brass andirons, \$7. Gunderson, AL 6-6186.

GASOLINE MOTOR, Briggs and Stratton 2 1/2 hp, \$25; Ambassador trumpet \$100. Salazar, 420 Graceland SE, AL 5-1301.

NIKKOR TELEPHOTO lens, 135mm, f/3.5 for Exacta, \$56. Heineman, ext. 52294.

BABY CRIB w/mattress, \$15; playpen \$7; stroller, \$10, car bed, \$5; four kitchen chairs, \$10, 26"x40" porcelain top kitchen table, \$8. Edgar, AL 5-9070.

SHOPPING CENTER

'49 MOTORCYCLE, Harley-Davidson 74, windshield, buddy seat, \$275 cash or \$325 on terms. Beery, AL 5-8305.

2 BRM HOME, SE 1 block off Ridgecrest, drive, corner lot, wool carpet throughout, must sell, will sacrifice, will trade. Hughes, AL 5-5796.

TREES, Lombardy poplar and blue spruce, reasonable, will deliver. Bass, CH 3-8748.

FOR RENT

3 BRM HOME, den, dining room, electric range, patio, barbecue pit, walled yard, wall-to-wall carpeting, air conditioning, lease \$125, rent \$135. Collins, AL 5-9115, 5208 Cherokee Rd. NE.

3 BRM HOUSE, unfurnished, close-in, fine neighborhood, \$110 a month including water. Vytlicil, CH 2-5765.

SNOW HOME, 1 1/4 baths, double garage, Venetian blinds, air conditioned, 220v stove connection, established neighborhood, available Mar. 22. Carpenter, AX 9-3519.

WANTED

FREEZER, chest type, 10 cu. ft. Baron, AX 9-6387, 11109 Elvin NE.

BABY SITTING, anytime, older woman who loves children. Goodwin, AL 6-7145 after 5:30.

TAKE CARE of one child in my home, near base. Cihlar, AL 6-2264.

CHILD CARE in my home, off the 9600 block of Constitution. Farner, 1506 Erbe St. NE, AX 9-6007.

RIDERS for the South Valley Rebel Riders Horse Show Sunday, Mar. 8. Tatum, CH 2-9021.

CHILD CARE in my home. Goff, CH 2-6073, 2314 Garfield SE.

HAVE TUB, will travel. Want to join Novelty Orchestra. Edwards, AX 9-5496.

HOMES FOR 9 pups, 5 male, 4 female, 1/2 boxer, 1/4 wrestler, 1/4 assorted acrobat. McCorthy, DI 4-1804 after 6.

WILL TRADE '49 Ford customized convertible, new top, R&H, for uncustomized, unconvertible car, or make offer. Deely, DI 4-6085.

LADY TO CARE for family about 10 days in March or April. Phillips, Ext. 46284.

WOULD LIKE to share apartment with working girl, close to base. Rumbough, AM 8-3123, 1212 Carlisle SE, evenings.

CAMP TRAILER, new, used or wrecked. Stixrud, DI 4-7873.

SMALL SCREEN TV set, very old. Pritchard, AL 6-5667.

LOST AND FOUND

LOST—Black temple glasses, 6 keys on ring w/clip, check made out to Albuquerque Wild Life & Con., dark blue water repellent jacket. LOST AND FOUND, Ext. 26149.

FOUND—National Society of Engineers pin, ladies white gold Bulova watch, brown plastic top glasses in tan case, tan and brown zipper bag w/gym clothes. LOST AND FOUND, Ext. 26149.

LIVERMORE FOR SALE

DISHWASHER, James Portable, \$25; Pin-cor Reel-type power mower, \$35. Richards, HI 7-4389.

Medical Director Writes

Excess Weight Has Harmful, Damaging Effects on Body

Appearing here is the first of two articles by Sandia Corporation Medical Director on the problem of excess weight. Entitled "The 5 D's of Obesity" this first article lists the price paid for excess weight: Disfigurement, Discomfort, Disability, Disease and Death.

By S. P. Bliss, M. D.
Medical Director

One of the most important tissues of the body is fat. Fat in NORMAL AMOUNTS serves many useful purposes. It acts as a reservoir of food to be used in time of need; it serves as padding or shock absorbing material; it has a function of insulation, and keeps us warm; it is responsible for smoothness and elasticity of the skin as well as for the normal shape and contour of the body and finally it aids in the conservation of proteins. Therefore, fatty tissue in proper amounts is essential in protecting health and nutrition, as well as adding to a person's comfort and shapeliness.

On the other side of the picture, abnormal amounts or superfluous fats produce harmful and damaging effects on the body, all of which can be included under the classification of the 5 D's—Disfigurement, Discomfort, Disability, Disease, and Death.

DISFIGUREMENT—Fatty tissue is not distributed uniformly over the body. For instance, the abdomen, hips, breasts and thighs have more than their share. Therefore, in the overweight person the unequal distribution is exaggerated causing the "bay window," "spare tire," "double chin," and "middle-age spread." Poor posture may result from burden of excess weight, detracting from the grace of the body. This disfigurement very often causes severe mental anguish. Contrary to this common belief that fat people are "jolly" as a rule they are unhappy, depressed, frustrated, for they feel different, conspicuous, self-conscious and hypersensitive.

DISCOMFORT — Carrying around 30 to 100 extra pounds of dead weight 24 hours a day will in time exhaust even the strong. The so-called laziness of the obese is in reality a sluggishness, tiredness, lack of pep that the majority of overweight people exhibit. Extra thick layers of fat produce an insulation that causes these people to mind the heat. The presence of extra "dead weight" often causes short windedness, palpitation, dizziness, backache, and pain in the weight-bearing joints. Of course, there are other conditions which can produce these same symptoms, and only a thorough medical examination can determine the cause.

DISABILITY — The fat child can't run as fast as his playmates, and the fat man cannot work as efficiently as his fellow laborers. Shortness of breath in time becomes a major handicap. As time progresses, the ordinary routine physical demands of a job become major projects and partial incapacity results. If obesity is complicated by heart disease, eventual total invalidism will result.

DISEASE—Statistics prove that the obese person is vulnerable to the so-called degenerative disease. Deaths from heart and kidney disease are 50% greater among obese

men, in women the figure is near 77%. Apoplexy is 60%, angina pectoris 100%, and high blood pressure 25% above normal. Deaths from diabetes in obese people are 30% higher than the normal. Gall bladder disease is one of the most common diseases of "fat people." According to one investigator, gall bladder difficulty was found to occur almost a decade earlier in the obese. The overweight is more susceptible to the common cold, chronic bronchitis, cancer, varicose veins, ruptures, constipation, arthritis, postural defects, accidents, flat feet, and infections.

DEATH—Useless fat will ultimately cause premature death. Insurance company statistics show that the mortality rate among obese people is 50% higher than normal. A relationship exists between degree of obesity and the mortality rate. For each pound of excess fat there is a one per cent increase in death rates.

The greatest number of cases of obesity are caused by overeating and improper eating. Fat tissue is produced only by food. The person who is obese should get a complete physical examination, and follow his physician's directions completely if he expects to lose weight safely.

Varian Representatives At Colloquium Mar. 9

"Developments in Electronics at Varian Brothers" will be discussed at a meeting of the Sandia Corporation Research Colloquium Monday, March 9, Craig Hudson (5111), Colloquium chairman, announces.

James Schoolery and Emery Rogers, representatives of Varian Brothers, electronics manufacturing firm, Palo Alto, Calif., will make the presentation.

The meeting will begin at 9:30 a.m. in the basement conference room of Bldg. 802. Tickets are not required.



BUSINESS LEADERS of the country met in Washington, D. C., Feb. 25 with high government officials to discuss U.S. Government financing. Among those present were S. P. Schwartz, Sandia Corporation Vice President and General Manager (center). With him are Mrs. Ivy Baker Priest, Treasurer of The United States, and James F. Stiles, Jr., National Director of Savings Bond Division.

Sandia Vice President, Gen'l Mgr. Meets With Government Officials

S. P. Schwartz, Sandia Corporation Vice President and General Manager, was one of a group of the nation's business leaders called to Washington last week by Secretary of the Treasury Robert B. Anderson. The one-day briefing session with high government officials was highlighted by the personal appearance of President Eisenhower.

RICHARD S. COOK, JR., to supervisor of Engineering Procedures and Special Problems Section 8161-1, Product Control Division.



"Dick" came to the Corporation in 1955. For a year and a half he worked in product change control, then for half a year he was in manufacturing engineering. Dick was transferred to Livermore Laboratory in 1957 and has since worked in product control and preliminary analysis.

Before joining Sandia, Dick worked part-time for an engineering firm in Seattle, Wash., while attending the University of Washington. He received his Bachelor's degree in Mechanical Engineering in 1954. In 1951 he received a BS degree from Washington State University.

Dick is a veteran of two years service as an Army Signal Corps officer. He is a member of Automotive Engineers and past president of the Livermore 20-30 club, now acting as first vice president.

A. B. ANDERSON to supervisor of Design and Calibration Section 1614-3, Instrumentation Division.



During his two years with Sandia Corporation "Andy" has been with the Environmental Test Division.

Immediately before coming to Albuquerque he was a radar consultant for eight months with a division of Pan American Airways located at Patrick AFB, Florida.

For six years "Andy" worked in anti-aircraft fire control testing at the Aberdeen Proving Grounds, Md.

He was also employed for nine years by General Electric in Schenectady, N. Y., in development work and as a design engineer.

Andy received his Bachelor's degree in Electrical Engineering from Michigan College of Mining and Technology and is a member of the American Ordnance Association and the American Institute of Electrical Engineers.

Supervisory Appointments

JIM ARNOLD to supervisor of Second Shift Section 1612-4, Structural Test Division.



Jim has been a test engineer in Environmental Test Division during his three years with Sandia Corporation.

He was with General Services Administration in San Francisco for eight months directly before coming here; however for the previous seven years Jim was a construction engineer for the Corps of Engineers in southern New Mexico, Texas and France.

Jim received his Bachelor's degree in Electrical Engineering from the University of New Mexico where he was a member of Phi Theta, scholastic honorary, and Sigma Tau, engineering honorary.

During World War II he served five years in the Army Air Corps, part of the time in New Guinea and the Philippines.

ARNOLD G. SCHUKNECHT to supervisor of Accounting, Budget and Tabulating Section (8213-2), Accounting and Financial Division, Livermore Laboratory.



Arnold joined Sandia in 1952 and worked two years as an employment interviewer. For the next two years he worked first in employee services and then in employee benefits. Arnold was transferred to the Livermore Laboratory in September 1957, as a technical service department representative.

He received his graduate degree of Master of Personnel Services in 1952 from the University of Colorado and his Bachelor's degree in Industrial Psychology in 1951 from the University of South Dakota.

WILLIAM H. MYERS to supervisor of Statistics and Results Section 2633-1, Program Administration, Status, and Results Department.



"Bill" has been in auditing since he came to Sandia Corporation in July 1953. He was hired directly from Western Reserve University in Cleveland where he had just received his Bachelor's degree in Business Administration.

He had also previously worked two and a half years for National Bank Examiners in Cleveland.

During World War II Bill was in the Army for four and one-half years and saw service in Italy.

KENNETH E. FINDERS to supervisor of Design Section 8221-2, Plant Engineering Division at Livermore Laboratory.



"Ken" has worked in the Mechanical Design Section of the Plant Engineering Department since he came to Sandia Corporation eight years ago.

Previously he was doing field inspection for the Bureau of Reclamation in Arizona for a year and a half.

He received a Bachelor's degree in Engineering from the University of Iowa, Iowa City, and is a registered professional engineer in New Mexico.

During World War II Ken served three and one-half years in the Army Air Corps part of the time as a pilot in the South Pacific.

HARRY P. WHEELER to supervisor of Facility Design Section 1613-2, Project Division.



He has been with Sandia Corporation in structural test work since October 1954.

For the year and a half prior to coming here Harry was a structural analyst for Douglas Aircraft in Los Angeles.

From 1939-41 he was in structural analysis work and from 1944-53 in project planning work for the Bureau of Reclamation in Denver. Harry has also done structural analysis work for Curtis Wright in St. Louis.

He received both his Master's and Bachelor's degrees in Civil Engineering from the University of Missouri.

Harry is a member of the American Society of Civil Engineers, Tau Beta Pi, engineering honorary, Chi Epsilon, civil engineering honorary, and is a registered professional engineer in New Mexico and California.

GEORGE C. STEINHAEUER to supervisor of Section 8115-1, Materials Support Division.



George joined the Livermore Laboratory in 1957 and has since worked in a project engineering group.

Before coming to Sandia he was a sales engineer with the Diamond Chain Company from 1953 to 1957. Previously George worked as a detail engineer with the Allison Division of General Motors from 1958 to 1952.

He graduated from Purdue University in 1948 with a Bachelor's degree in Mechanical Engineering. In 1943 he attended South Dakota State University.

George is a veteran of three years service with the Army during World War II.

Seeking Bids on New Gate Houses At Sandia Laboratory

Invitations to bid on constructing three new gate houses at Sandia Laboratory were issued last week by the Atomic Energy Commission. The new structures, approximately 100 sq. ft. each, will replace obsolete gate houses located at gates 1, 6, and 7.

Bids are scheduled to be opened at the Albuquerque Operations Office March 11.

Government estimate of cost for the three buildings and associated facilities such as plumbing and fencing is \$16,000 to \$20,000.

Radio Amateurs Get Special QSL Cards To Verify Contacts

Special "QSL" cards, full color scenes from Albuquerque's Turquoise Trail provided by the Chamber of Commerce, will be available to members of the Sandia Base Radio Club at a meeting Tuesday, March 10. The meeting will begin at 8 p.m. in Bldg. T-319 on Sandia Base.

The QSL card is exchanged by amateur radio operators to verify contacts. Collections of cards from throughout the world decorate the walls of most ham transmitter rooms.

Ed Bales (2554), SBRC secretary and member of the Chamber of Commerce Tourist Committee, originated the idea as a method of advertising the tourist attractions of Albuquerque. The cards are postcard size and show Sandia Crest, Old Town, the Coronado Monument and Santo Domingo Indian reservation.

E. Earle Fletcher, head of the Lovelace Clinic electronics laboratory, will discuss and demonstrate the Heathkit Mohawk communications receiver at the meeting.

Convair Engineer To Discuss Reliability Before ASQC Members

Based on examples derived from experience in developing the B-58 "Hustler," a talk entitled "Reliability From a Practical Standpoint" will be presented at a meeting of the Albuquerque Section of the American Society for Quality Control Thursday, March 12.

Speaker will be J. L. Coburn of the Convair Aircraft Corporation, Ft. Worth, Tex.

The meeting will begin at 8 p.m. in Rm. 122, Mitchell Hall, University of New Mexico, according to Ken Bricker (5531), publicity chairman.